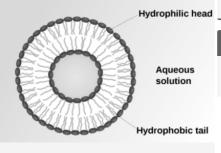


Osmosis/homeostasis/cell membrane transport Cheat Sheet by ava (ava77may) via cheatography.com/132008/cs/27253/

Vesicular Transport

- Active transport process
- Vesicles: small spheres a membrane
- Function in movement of material
- Occurs when larger molecules or big clumps of material need to be transported
- Endocytosis & Exocytosis

Vesicular Transport- image



ENDOCYTOSIS VS EXOCYTOSIS

exocytosis

Used to get rid of

wastes or release valuable materials

cells have made

ex) releasing

"out"

simple vs facilitated diffusion

Exocytosis

simple diffusion	facilitated diffusion
unassisted	assisted by carrier protiens
occurs through the phospholipid bilayer	occurs through the membrane protiens
small and non polar molecules transported	large and polar molecules transp-

rate of diffusion is directly proportional to the concentration gradient and he membrane permeability

of the solute molecule

rate depends the carrier protein o

orted

word defini solute A sub in a s solvent In a s which Solution A mix subst

word definiton solute A substance that is dissolved

in a solution.

solvent In a solution, the substance in which the solute dissolves.

Solution A mixture that forms when one substance (the solvent) dissolves another (the solute).

Selective A property of a plasma
permea- membrane that allows some
bility substances to cross more
easily than others.

Tonicity

The ability of a solution to cause a cell to gain or lose water; it depends partly on the concentration of non-penetrating solutes relative to the inside of a cell.

VOCAB WO

What is the relationship between rate diffusion and molecular weight?

What does heating wate do to the rate diffusion of tea?

What enviornment do pla cells work be at and why

Hyponatrem

diffusion gr



Phagocytosis

endocytosis

Used for large

clumps of food

and even whole

molecules,

"in"

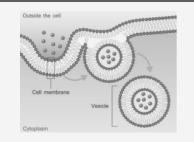
cells

hormones like dopamine

Pinocytosis

Receptor - Mediated Endocytosis

Endocytosis



Diffusion

In terms of molecules, explain what happens to a sugar cube when it is placed into a beaker of water.

The sugar cube dissolves in the water, the sugar molecules break apart and dissolve in the water which is a solvent and the sugar cube is the solute.



By **ava** (ava77may) cheatography.com/ava77may/

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Passive vs Active transport			Tonicity and Osmosis (cont)			Real life scenarios		
active requires energy in the	ne form of	passive does no	t require energy	The water moves to the higher solute	The water has no net movement and	The water leaves the cell to the higher solute concentration	What type of transport is room and you not noticing Diffusion is used when a molecules with the scen across the room more a	
ATP occurs AGAINST the tration gradient	e concen-	occurs [tration g	OOWN the concen- radient	concentration inside the cell	nothing happens to the cells.			
, and the second	tration		h to low concen-	cell swells and	no change	cells shrink	If the amoeba was place shrink because the solution are area to the amoeba.	
р р р по по		d diffusion	plant cells work best	human cells work best		is greater than in the amomoves out to the salt wat I think they would use p		
phagocytosis endocytosis		diffusion		low osmotic pressure	equal osmotic pressure	high osmotic pressure	ytosis is taking in a large digest inside the cell. Or because endocytosis is	
What is tonicity? Measure of water pressure inside a cell compared to outside the cell. Tonicity and Osmosis			What is cell trans Cell transport is across the cell What is the most	in diffusion all particles r tration gradients. In osm molecules move across membrane from a dilute solution.				
Tonicity and Osmosis			What is the most phospholipid me					
hypotonic isotonic The concentration The conc		hypertonic centration The concentration		ively permeable	oid bilayer because e.	it's select-		
outside the cell are outsi		ide the cell outs	of the solute outside the cell are HIGHER than inside the cell	Why is it importa maintain the hom So certain thing can get in and				
				What is the funct embedded in the They move larg cell because th				



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